	Application No.	Applicant(s)
Notice of Allowability	09/909,482	FLOCKEN, PHILIP ANDREW
	Examiner	Art Unit
	Kenny Lin	2152

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *4/26/2006*.

2. ☒ The allowed claim(s) is/are *1-24*.

3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a) ☐ All   b) ☐ Some*   c) ☐ None   of the:

       1. ☐ Certified copies of the priority documents have been received.

       2. ☐ Certified copies of the priority documents have been received in Application No. _____ .

       3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
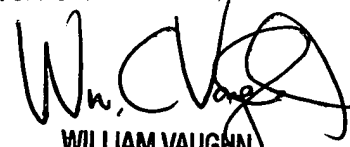
    * Certified copies not received: _____ .

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. **THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.

    (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached

       1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____ .

    (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____ .

    Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)

2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)

3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____

4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material

5. ☐ Notice of Informal Patent Application (PTO-152)

6. ☒ Interview Summary (PTO-413), Paper No./Mail Date *7/25/06* .

7. ☒ Examiner's Amendment/Comment

8. ☒ Examiner's Statement of Reasons for Allowance

9. ☐ Other _____ .

WILLIAM VAUGHN
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100

DETAILED ACTION

1.   Claims 1-24 are presented for examination.

EXAMINER'S AMENDMENT

2.   An examiner's amendment to the record appears below. Should the changes and/or

additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR

1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the

payment of the issue fee.

        Authorization for this examiner's amendment was given in a telephone interview with

Jim Sprowl, Reg. No. 25,061, on July 25, 2006.

3.   The application has been amended as follows:

1.   (Currently amended) A server-based, computer implemented method for detecting and
neutralizing invalid server-supplied data received from clients comprising the following steps:
        ~~performed~~ following a server's receipt of a request for services from a client which
request is accompanied by at least one identifier and associated data placed on the client via
commands sent to the client by the server or by related servers on earlier occasions;~~, said method
comprising:~~
        scanning the data which is received from the client to identify, as invalid data, any
character string in the data that contains ~~improper~~ restricted characters;
        determining the identifier associated with any data which is invalid; and
        as part of a server response sent back to the client, including in the response a command
that causes only the invalid data~~, meaning character strings that include improper characters,~~
identified by the identifier to be neutralized;
        wherein the detection and neutralization of the data is applied to one or more cookies
supplied by the server or by the related servers to the client.

2.   (Currently amended) A method in accordance with claim 1, ~~wherein the method
is applied to the detection and neutralization of one or more cookies each associated with data
and an identifier and supplied by the server or by related servers to clients,~~ said method further
comprising:

when the data and the identifier associated with ~~such a~~ the one or more cookies are[[is]]
later returned by a particular client to the server and the data is found to contain invalid data,
then neutralizing the one or more cookies associated with invalid data and identified by the
associated identifier.

3.   (Currently amended) A method in accordance with claim 1, wherein [[a]]the request for
services received from a client is accompanied by two or more separate identifiers and associated
data, and wherein the command ~~or commands~~ sent to the client as part of [[a]]the server response
to the client includes one or more commands each of which identifies by identifier the associated
data that contains the identified invalid data which is to be neutralized, whereby other data
associated with other identifiers and containing valid data are not neutralized.

4.   (Currently amended) A method in accordance with claim 1, wherein neutralization is
carried out by sending to [[a]]the client a command that places on the client new data associated
with an identifier found on the client associated with the data containing invalid data and a
domain identifier of the server or of the related servers, the new data containing a null data
string, whereby the new data displaces the erroneous data and thereby neutralizes the erroneous
data.

5.   (Currently amended) A method in accordance with claim 1, wherein the data placed on
the client via one or more commands sent to the client includes an expiration date, and wherein
neutralization is accomplished by adjusting the expiration date to a value that neutralizes the
identified invalid data through expiration shortly after the commands are received.

12.   (Currently amended) A computer program stored on a server containing instructions
enabling it to cause [[a]]the server, when executing the computer program, to carry out the
method steps as in claim 1.

13.   (Currently amended) A server-based system for detecting and neutralizing invalid server-
supplied data received back from clients comprising:
        a server designed to communicate over a network with clients;
        a scanner that scans at least some requests for services flowing into the server coming
from clients over the network and including a detector that can detect incoming identifiers and
associated data returned to the server by [[the]]a client and originally placed on the client by the
server or by related servers on earlier occasions;
        a data integrity tester that tests the validity of such incoming server data by searching the
data for ~~improper~~ restricted characters; and
        a message insertion command generator placed into operation when the data integrity
tester identifies invalid data, meaning data containing ~~improper~~ restricted characters, in such
incoming server data that causes the server, when transmitting a return message back to [[a]]the

client from which invalid data was received, to include within the return message at least one command that causes the client to neutralize the invalid data, identified by the associated identifier, without neutralizing other valid data;
    wherein the detection and neutralization of the data is applied to one or more cookies supplied by the server or by the related servers to the client.

14.   (Currently amended) A system in accordance with claim 13, ~~wherein the system is used to detect and neutralize one or more cookies supplied by the server or related servers to clients on earlier occasions,~~ said system further comprising: [[and]]
    when the data and identifier associated with [[a]]the one or more cookies are later returned to the server by a particular client and the data integrity tester identifies invalid data, then the at least one command sent back to the client by the message insertion command generator neutralizes the one or more cookies associated with such identifiers and invalid data.

15.   (Currently amended) A system in accordance with claim 13, wherein a request for services received from a client is accompanied by two or more separate identifiers and associated data, and wherein, if the data is found to be invalid, the at least one or more ~~command or~~ commands sent to the client by the message insertion command generator as part of a response to the client include at least one command which identifies by identifier the associated data that contains the identified invalid data which is to be neutralized, whereby other data associated with other identifiers and containing valid data are not neutralized.

16.   (Currently amended) A system in accordance with claim 13, wherein neutralization is carried out by the message insertion command generator sending to [[a]]the client a command that places on the client new data associated with an identifier found on the client associated with the data containing invalid data and a domain identifier of the server or of the related servers, the new data containing a null data string, whereby the new data displaces the erroneous data and thereby neutralizes the erroneous data.

17.   (Currently amended) A system in accordance with claim 13, wherein the data placed on the client includes an expiration date, and wherein neutralization is accomplished by the at least one or more commands that adjust the expiration date to a value that neutralizes the identified invalid data through expiration shortly after the commands are received.

19.   (Currently amended) A system in accordance with claim 17, wherein the expiration date is set to a date equal to or earlier than the date when the at least one or more commands are sent back to the client.

Allowable Subject Matter

4.   Claims 1-24 are allowed.

5.   The following is an examiner's statement of reasons for allowance: In the prior art, when a cookie is corrupted, a new cookie is generated to replace the corrupted one since generating cookie is easy. However, none of prior art of record explicitly teaches or fairly suggests all of the limitation of the claimed invention, especially the limitation of scanning to detect invalid data of a cookie containing restricted characters to be neutralized, the restricted characters defined to be space, beginning bracket, end bracket, beginning curly brace, end curly brace, beginning parenthesis, end parenthesis, question mark, plus sign, colon, semi-colon, comma, equal sign, at sign, forward slash, backward slash, and quotation mark; using identifier to associate with the invalid data scanned and to neutralize the invalid cookies data supplied by servers to the client.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."
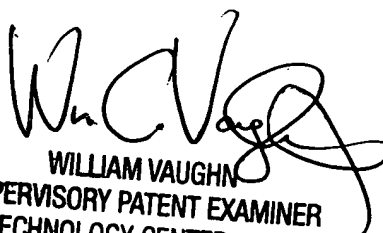
6.   Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kenny Lin whose telephone number is (571) 272-3968. The examiner can normally be reached on 8 AM to 5 PM Tue.-Fri. and every other Monday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Bunjob Jaroenchonwanit can be reached on (571) 272-3913. The fax phone number

for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ksl
July 25, 2006

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